

167754

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604-3590**

MEMORANDUM

DATE: 14 April 2000

SUBJECT: Technical Review of the Sauget Sites I January 21, 1999 Administrative Order by
Conset
June 25, 1999 Support Sampling Plan as approved by letter dated September 9,
1999
• Draft Developed Area Sampling Plan

FROM: Afif Marouf, Toxicologist
Remedial Response Section #5

TO: Michael Mcateer, Remedial Project Manager
Remedial Response Section #2

As requested, I have reviewed the above subject report, and submit the following comments:

1. Dioxin, copper, and zinc are present at concentrations that do not cause adverse human health effects in exposed populations.
2. Benzo (a) pyrene, dibenzo (a,h) anthracene, and benzo (a) anthracene are present at concentrations that potentially cause adverse human health effects in exposed populations.
3. There is no toxicity information on phenanthrene, benzo (g, h, i) perylene, and acetaphthylene.
4. There is no toxicity information on pentachlorobiphenyl, heptachlorobiphenyl, octachlorobiphenyl, nonachlorobiphenyl, and decachlorobiphenyl.
5. MCPA [(4-chloro-2-methylphenoxy)-acetic acid] is present at concentration that potentially cause adverse human health effects in exposed.

I have few questions regarding volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), and pesticides. Please let me know when we can meet. I will be off on Monday, Tuesday, and Friday of next week, and will be available the week of April 24.

Thanks,
Afif

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- ✓ 2. Benzo (a) pyrene, dibenzo (a,h) anthracene, and benzo (a) anthracene are present at concentrations that potentially cause adverse human health effects in exposed populations. (*exceed 10^{-6}*)
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Used
- R. 3 screening level data = 10^{-6} risk numbers

B

$$10^{-6} = 8.7 \div 100 = .087 \text{ ppb}$$
$$10^{-4} = 8700 \text{ ppb} \quad \left[= 87 \text{ ppb} \right]$$